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Bulletin of The University of Nebraska

The SCHOOL OF AGRICULTURE

THE WINTER COURSE

January 21 to February 18, 1918

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Winter Course in Agriculture

January 21 to February 18, 1918

GENERAL INFORMATION

1. Registration—January 21, 1918. The fee is $4.00—payable at time of registration.

2. Requirements for Admission—All persons must be 15 years of age or more. The course is especially designed for busy men who cannot spend more than a few weeks away from their farms.

3. Street Car Service—There are direct and commodious street car connections between the University Campus and the University Farm. All cars marked "University Farm" and "State University Farm" come directly to the Farm campus. Take any street car at the Railway Station and transfer to the State University Farm car at Eleventh and P streets. A walk of one block north from Eleventh and O streets is necessary to make the transfer.

4. Accommodations—A large list of rooming and boarding places is on file in the office of the Principal, Room 207, Agricultural Hall.

COURSE OF INSTRUCTION

AGRICULTURAL ENGINEERING (2 hours per week)

Rural Architecture—The lectures in Rural Architecture will be of value to the farmer in that they will enable him to plan a better arrangement of his buildings and how to plan the buildings for greater efficiency.

Planning the farmstead
Planning the house
Water Systems
Farm Sanitation
Barns and other buildings
Silos
Roads
Building materials.

PROFESSOR CHASE
ASSISTANT PROFESSOR SJOGREN

ANIMAL HUSBANDRY

(1) **Beef Cattle Judging** (4 hours per week)

(2) **Horse Judging** (4 hours per week)

(3) **Swine Judging** (2 hours per week)

(4) **The Care, Feeding and Management of Live Stock** (4 hours per week)

The importance of live stock in the successful operation of the farms of Nebraska makes it essential that the operator become familiar with live stock judging and selection. Courses are given which will enable the student to quickly grasp the fundamentals of stock judging. Some time will be spent in judging fat animals as well as the judging of breeding animals. Breed type will be emphasized and the objections and disqualifications as well as desired characters will be explained for each of the common breeds of cattle, horses, hogs and sheep.

Considerable time will be devoted to meat cutting demonstrations. The demonstrator will first locate the position of the various cuts of meat upon the living animal and will then proceed to cut a carcass into the common wholesale cuts. The relative values of the various cuts will be explained. The home curing of meats will be discussed.

Live Stock Feeding—A study of rations used in growing and fattening farm animals. The composition of the various feeds and their actual value is disclosed by experimental data and feed lot experiences. The part live stock feeding plays in the world's agriculture.

PROFESSOR GRAMLICH
ASSISTANT PROFESSOR WARNER
In charge Meat Demonstrations
ASSISTANT PROFESSOR PIER
ASSISTANT PROFESSOR JENKINS

ANIMAL PATHOLOGY (3 hours per week)

Diseases of Farm Animals takes up the cause and prevention of digestive troubles, prevention of the loss of young animals due to navel infection, and emergency treatment. The teeth are studied with reference to their structure and dentition with a view of determining the age of animals by their teeth, and also as to their being a factor in bringing about indigestion. Emergency surgery is also taken up and methods of controlling hemorrhage and first aid to wire cuts studied.

Contagious Diseases are studied with reference to the best methods of stamping out tuberculosis, hog cholera, etc. Students learn that it is profitable to employ only the best qualified veterinarian and are able to

coöperate with him intelligently in eradicating any of the various contagious diseases he may have to contend with.

Students are taught also how to splice ropes, make rope halters, and tie all of the different knots and ties that would be met with in using ropes on the farm or ranch.

PROFESSOR GAIN

DAIRYING (6 hours per week)

The subject of Dairying is taken up with the view of giving a practical training in the essentials of the business.

(1) Dairy stock; breeds, judging, feeding, housing, care and management.

(2) Butter making; the power churn, hand churn, and the simple methods of placing this product on the market.

(3) Separation; creaming of milk by separators; different makes, the testing of separators, the care and management of separators. In this laboratory instruction is given in the preparation of milk for market.

(4) Milk testing; the methods of testing whole-milk for butter-fat, the correct methods of cream testing, the operation of testing herds or individuals.

(5) Cheese making; the making of Cottage, Gouda, and Brick cheese.

(6) A course of lectures covering the laboratory work above mentioned, with explanations and practical suggestions for the profitable pursuit of dairying in this section of the country.

PROFESSOR FRANDSEN
ASSISTANT PROFESSOR NEVENS
MR. THORSON
MR. THOMPSON

ENTOMOLOGY (2 hours per week)

A series of practical lectures—two each week—upon the problems of insect control as related to Nebraska crops, domestic animals and man. In these lectures the appearance of the destructive insect and the manner of its work, the essential points in its life-history and the standard remedies and preventive measures for its injuries are the points brought out. Such insects as the cut-worm, white grubs, webworms, chinch bug, army worm, grasshoppers, corn root-worm and root-louse, corn ear-worm, Hessian fly, grain plant-lice, potato beetle, codling moth, peach borer, scale insects, grain weevils, botflies, mosquitoes, flies, lice and fleas are given particular and detailed consideration.

PROFESSOR BRUNER

FARM MANAGEMENT (2 hours per week)

Farm Management is the business side of farming. It deals with the problems which confront every farmer in the organization and management of his farm. The farm is considered as a business investment from which the owner and operator wish to secure the greatest continuous profit.

Among the subjects discussed are the following: Arrangement of Farm Buildings, The Farm Layout, Size of Farms, Diversified and Specialized Farming, Productivity and Labor Income, Labor, Land Rental, Farm Records and Accounts, Figuring Cost of Production, Wastes in Distribution, Coöperation, Grain Warehouses, and Profitable Nebraska Farms.

The lectures are abundantly illustrated with lantern slides and with charts showing the results of Farm Management surveys in Nebraska and other states. The work is of general interest because it gives a cross-section view of Nebraska farm conditions as they actually exist. It is of particular interest to men who are managing farms because it shows which types of farming are proving most profitable in Nebraska at the present time, and which factors have the greatest influence in determining profits.

PROFESSOR FILLEY

FIELD CROPS (5 hours per week)

A brief course in field management and crop-production. The different general types of crops are discussed in relation to climate, soil, and market conditions and to the needs and means of the individual farmer. The principal crops, their care and disposition are treated in considerable detail. Special attention is given to improved methods in everyday practice.

PROFESSOR HOPT
MR. ANDERSON

HORTICULTURE (3 hours per week)

The subjects of fruit growing, vegetable growing, and the ornamentation of the home grounds are discussed in this course.

(1) **Fruit Growing;** soils, location, and the selection of varieties for the home orchard. Methods of pruning and spraying tree fruits.

(2) **Small Fruits;** varieties and cultural methods.

(3) **Vegetable Growing;** how to make a garden soil. Use of the hot bed for starting early vegetables. Proper management and care of vegetables for the home.

(4) **Potato Culture;** the value of seed selection, cultural methods.
(5) **Ornamenting the Home Grounds;** how to properly arrange native and other ornamental shrubs and trees in the yard.

PROFESSOR HOWARD
ASSOCIATE PROFESSOR HOOD
ASSISTANT PROFESSOR COOPER

PLANT PATHOLOGY AND PHYSIOLOGY (1 hour per week)

The aim of the talks on these subjects is to develop a knowledge of, and interest in, the plant in health and in disease.

The lecturers will cover the following subjects:

1. Diseases of cereals.
2. Diseases of the potato.
3. Diseases of fruit trees.

PROFESSOR WILCOX

POULTRY HUSBANDRY (2 hours per week)

Realizing the importance of the Poultry Industry in this state and the demand for instruction and investigation in this branch of agriculture, the department of Poultry Husbandry was established. This department is equipped to give practical lectures and demonstrations that will be helpful both to the general farmer and the specialist.

The essentials of successful hatching and brooding, economical feeding, practical housing, improvement of stock by breeding, and good marketing methods are the topics which will be discussed in a series of eight lectures and demonstrations. The stock and equipment at the poultry farm will be available for practical demonstration purposes.

PROFESSOR MUSSEHL

SOILS (4 hours per week)

A course in the properties and management of Nebraska Soils. What our soil is; the relation of the plant to the soil; soil moisture; tillage; the care and use of manures; crop rotation and special soil problems are discussed.

PROFESSOR BURR
ASSOCIATE PROFESSOR GADDIS

For further information address

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